

Katchenkov, S. M. and Katchenkova, N. S.  
METHOD OF SEARCH FOR GERMANIUM. [1961] 3p.  
Order from OTS or SLA \$1.10 61-19560

Trans. from Izvestiya Vysshikh Uchebnykh Zavedenii.  
Geologiya i Razvedka (USSR) 1959 [v. 2] no. 3,  
[p. 87-88].

DESCRIPTORS: \*Germanium, Rock, Coal, Spec-  
trographic analysis, Chemical analysis.

(Earth Sciences--Geology, TT, v. 7, no. 8)

61-19560

I. Katchenkov, S. M.  
II. Katchenkova, N. S.  
III. Geological Survey of  
Canada

201417

Office of Technical Services

Patterns in the Alteration of the Chemical  
Composition of Subsurface Waters of the Azov-  
Kuban Trough and the Distribution of Iodine  
and Bromine Therein, by N. V. Ovchinnikov,  
5 pp.

RUSSIAN, per, Iz Vysokikh Uchebnykh Svedeniy, Geol  
i Razvedka, Vol III, No 1, 1960, pp 134-138.

ATS-6/1142R

ATS/RJ-2209

195,972

Sci

May 62

Geophysical Prospecting and Exploration Methods on the  
Use of Perforated Materials in Two-Dimensional Seismic  
Modeling, by P. G. Gil'bershteyn, I. I. Gurvich, 26 pp.  
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Geol i Razvedka,  
No 1, 1960, pp 139-156. 9691002

~~MLK~~

AID Report T-64-2

Sci - Earth Sci & Astron  
Feb 64

250,200

(DC-4525)

Hydrogeochemistry, Its Tasks and Methods, by  
A. M. Ovchinnikov, V. V. Krasintseva, 14 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Geol i  
Razvedka, No 4, 1960, pp 103-111.

JPRS 6381.

Sci - Chem

Dec 60

135,827

(DC-4525)

Determining the True Rate of  $\alpha$ -Counting During  
the Deposition of Radioactive Aerosols on  
FPP-15-1.7 and FPP-25-3.3 Filters, by Yu. T.  
Kapitanov, A. S. Serdyukova, L. V. Gorbushina,  
A. P. Korenkov, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Geol 1  
Razvedka, No 4, 1960, pp 118-125.

JPRS 6381

Sci - Chem

135,828

Dec 60

Rybakova, N. O.  
THE CHANGE IN MORPHOLOGICAL CHARACTER-  
ISTICS OF SPORES OF SOME SPECIES OF FERNS  
DURING THEIR DEVELOPMENT PROCESS. [1961]

6p.

Order from ATS \$10.50

ATS-37NSOR

Trans. of Izvestiya Vysshikh Uchebnykh  
Zavedeniya, Geologiya i Razvedka (USSR) 1960,  
v. 3, no. 5, p. 61-66.

DESCRIPTORS: \*Spores, \*Plants, Growth,  
Microorganisms.

(Biological Sciences--Botany, TT, v. 6, no. 1)

61-22356

I. Rybakova, N. O.  
II. ATS-37NSOR  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS/RT-2829

161839

Office of Technical Services

An Analysis of the Operation of Knuckle Joints, by  
V.M. Matrosov and B.I. Spiridonov.

RUSSIAN, per, Iz V.U.Z. Zvezd Geo i Raz, 1964, vol. 7  
no. 2, pp. 132-136.

ATS-52R76R

ES/A tron  
Aug 86

<sup>7</sup>  
306,663

(DC-4605)

Some Problems of Superdeep Drilling, by B. I.  
Vozdvizhenskiy, 11 pp.

RUSSIAN, per, Iz Vysokikh Nauch Zaved, Geol  
i Razvadka, No 5, 1960, pp 128-136.

JPRS 6346

Sci - Engr

Dec 60

135,844



Pokeev, V. M.  
A METHOD OF DETERMINING THE PRESSURE OF  
SATURATED FORMATION WATERS. [1961] 6p.  
Order from ATS \$3.80      ATS-16N52R

Trans. of Izvestiya Vysshikh Uchebnykh Zaved-  
eni. Geologiya i Razvedka (USSR) 1960, v. 3,  
no. 6, p. 70-74.

DESCRIPTORS: \*Water, Pressure, Determination,  
\*Hydrology.

(Earth Sciences--Geology, TT, v. 6, no. 6)

61-25037

- I. Pokeev, V. M.
- II. ATS-16N52R
- III. Associated Technical  
Services, Inc., East  
Orange, N. J.

176707

Office of Technical Services

Kamenskii, G. N., Gavich, I. K., and Semenova, S. M.  
HYDRODYNAMIC CHARACTERISTICS OF DIFFERENT  
TYPES OF FLOWS OF UNDERGROUND WATERS.

[1961] 8p.

Order from ATS \$16.00

ATS-17N52R

Trans. of Izvestiya Vsesoyuznogo Nauchno-Issledovatskogo  
Geologiya i Razvedka (USSR) 1960, v. 3, no. 10,  
p. 81-88.

DESCRIPTORS: \*Water, Hydrodynamics.

(Mechanics--Hydrodynamics, TT, v. 6, no. 6)

61-25048

1. Title: Underground waters

I. Kamenskii, G. N.

II. Gavich, I. K.

III. Semenova, S. M.

IV. ATS-17N52R

V. Associated Technical  
Services, Inc., East  
Orange, N. J.

176714

Office of Technical Services

Gurevich, M. S. and Tolstikhin, N. I.  
A CHEMICAL CLASSIFICATION SCHEME FOR  
GROUND WATERS. [1961] 13p.  
Order from ATS \$22.60      ATS-05N54R

Trans. of Izvest[ia] Vysshikh Ucheb[nykh] Zaved[enii].  
Geol[ogiya] i Razvedka (USSR) 1961, v. 4, no. 1,  
p. 83-93.

DESCRIPTORS: \*Hydrology, Classification, Chemical  
analysis, Geology.

(Earth Sciences--Geology, TT, v. 7, no. 3)

62-12082

I. Gurevich, M. S.  
II. Tolstikhin, N. I.  
III. ATS-05N54R  
IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS-RJ-3523

Office of Technical Services

Kalinin, A. G. and Andreev, M. M.  
THE MINIMUM ALLOWABLE RADIUS OF CURVA-  
TURE FOR A WELL. [1961] 5p.  
Order from ATS \$7.35                      ATS-47N56R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Geologiya i Razvedka (USSR) 1961, v. 4, no. 5,  
p. 97-101.

DESCRIPTORS: \*Petroleum, Sources, Design.

(Earth Sciences--Geology, TT, v. 7, no. 3).

62-12142

I. Kalinin, A. G.  
II. Andreev, M. M.  
III. ATS-47N56R  
IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

62-12659

Romanovich, I. F.  
THE ROLE OF THE CONTENT OF STABLE COM-  
PONENTS IN THE COMPUTATION OF VOLUME  
CHANGES AND MATERIAL BALANCE IN METASO-  
MATISM. [1961] 8p.  
Order from ATS \$10.80

ATS-98N57R

Trans. of Izvest[ia] Vysshikh Ucheb[nykh] Zavedenii.  
Geol[ogiya] i Razvedka (USSR) 1961, v. 4, no. 7,  
p. 68-74.

DESCRIPTORS: \*Minerals, \*Transformations, Geology

(Earth Sciences--Geology, TT, v. 7, no. 10)

- I. Title: Metasomatism
- I. Romanovich, I. F.
- II. ATS-98N57R
- III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS-RJ-3521

Office of Technical Services

INTERNATIONAL GEOLOGY REVIEW, VOL. 5,  
NO. 4, P. 379-504. Apr 63, 1v. 115 refs.  
Order from AGI \$5.00, \$55.00/year

Trans. of Izvestiya-Vysshikh Uchebnykh Zavedenii.  
[Geologiya i Razvedka] (USSR) 1961 [v. 4] no. 8,  
p. 60-73; Zakonomi i Bosti Razmeshcheniya Poleznykh  
Iskopaemykh (USSR) 1958, v. 1, p. 252-274; Vsesoyuz-  
noe Mineralogicheskoe Obshchestvo. Zapiski (USSR)  
1961, v. 90, no. 6, p. 695-697; Sovetskaya Geologiya  
(USSR) 1961, no. 10, p. 42-57, 100-107, 118-136; and  
mono, Osnovy Tektoniki Kitaya, Moscow, 1962, p. 3-7,  
524-527 (Russian ed. of Chinese mono. ed. by N. V.  
Tupitsyn).

DESCRIPTORS: \*Geology, Periodicals, Sulfides, De-  
posits, Structural geology, China, Terrestrial magnet-  
ism, Minerals, Ion bombardment, Geophysical pros-  
pecting, Marine geology, Oils, Reviews.  
(Earth Sciences--Geology, TT, v. 10, no. 9) (over)

63-17713-4

I. American Geological Inst.,  
Washington, D. C.

Office of Technical Services

63-17713-3

INTERNATIONAL GEOLOGY REVIEW, VOL. 5,  
NO. 3, P. 253-378. Mar 63, iv. 125 refs.  
Order from AGI \$5.00, \$55.00/year

I. American Geological Inst.,  
Washington, D. C.

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Geologiya i Razvedka (USSR) 1961 [v. 4] no. 10,  
p. 66-71; Zakonomernosti Razmeshcheniya Poleznykh  
Iskopaemykh (USSR) 1958, v. 1, p. 203-240; Sovet-  
skaya Geologiya (USSR) 1961, no. 9, p. 8-70,  
108-114, 127-135, 148-152.

DESCRIPTORS: \*Geology, Periodicals, Radiochemis-  
try, Clay minerals, Terrestrial magnetism, Minerals,  
Indexes, China, Stratigraphy, Paleoecology, Molybde-  
num, Coal, Geochemistry, Oils, Gases.

Contents:  
Relationship of radioactive clays to their mineralogi-  
(Earth Sciences--Geology, TT, v. 10, no. 4) (over)

Office of Technical Services

62-17754

Chetverikov, S. D.  
A RATIONAL METHOD OF REPRESENTING THE  
COMPOSITION OF NATURAL WATERS AS APPLIED  
TO OIL-ASSOCIATED WATERS AND THEIR NOR-  
MATIVE CLASSIFICATION. [1962] 12p.  
Order from ATS \$18.25      ATS-81P60R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Geologiya i Razvedka (USSR) 1961, v. 4, no. 12,  
p. 85-94.

DESCRIPTORS: \*Water, \*Oils, \*Petroleum, Mixtures,  
Classification.

I. Chetverikov, S. D.  
II. ATS-81P60R  
III. Associated Technical Serv-  
ices, Inc., East Orange,  
N. J.

ATS-RJ-3522



(SF-1878)

Aleksandr Andreyevich Yakzhin, 3 pp.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh  
Zavedeniy, Geologiya i Razvedka, No 1, 1962,  
pp 1, 2.

JPRS 14734

USSR  
Biographic  
Aug 62

*ATS*

RJ-5750 TECTONICS OF SOUTHWESTERN SYRIA AND ADJACENT RE-  
GIONS OF THE NEIGHBORING COUNTRIES, A. V. Razval-  
yaev, Izv. Vysshikh Uchebn. Zavedenii, Geol. 1  
Razvedka 7, No. 12, 14-26 (1964).  
5250 W; 4 F; 30 R      \$17.75 (\$4.25)

12 V.V.Z. Gornyy zhur

Potapov, I. I.  
ON THE PROBLEM OF ORIGIN OF THE EARTH (K  
Probleme Proiskhozhdeniya Zemli) V. P. Sokoloff, tr.  
Feb 64, 13p 36refs  
Order from AGI \$5.00, in International Geology Review,  
vol. 6, no. 2 (p. 189-201)

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii  
Geologiya i Razvedka (USSR) 1962 [v. 5] no. 1, p. 3-18.

(Earth Sciences--Geology, TT, v. 12, no. 4)

TT-64-12302-2  
(p. 189-201)

I. Potapov, I. I.  
II. American Geological  
Inst., Washington, D. C.

Office of Technical Services

Partiskii, Yu. M.  
PRINCIPLES OF MOST EFFICIENT ROCK CRUSHING  
DURING DRILLING. [1962] 9p.  
Order from ATS \$12.00      ATS-43P63R

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedeni.  
Geol[ogiya] i Razvedka (USSR) 1962, v. 5, no. 4,  
p. 134-142.

DESCRIPTORS: •Rock, •Fracture (Mechanics), •Well  
drilling, Geology.

(Engineering--Chemical, TT, v. 9, no. 2)

63-12045

I. Partiskii, Yu. M.  
II. ATS-43P63R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

*ATS/RT-3872*

Office of Technical Services

63-17763

Chetverikov, L. I.  
PRINCIPLES OF APPLICATION OF THE THEORY  
OF PROBABILITY TO THE ANALYSIS OF  
EXPLORATION DATA. [1963] 12p.  
Order from ATS \$18.75      ATS-03Q70R

Trans. of Izvestiya Vysshikh Uchebn[ykh]  
Zavedeni. Geol[ogiya] i Razvedka (USSR) 1962,  
v. 5, no. 9, p. 73-85.

DESCRIPTORS: \*Probability, Theory, \*Exploration,  
Data, Mathematical analysis.

(Earth Sciences--Geology, TT, v. 10, no. 6)

I. Chetverikov, L. I.  
II. ATS-03Q70R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

Chang, T. and Skaryatin, V. D.  
RESULTS OF A STUDY OF FRACTURING OF  
CARBONATE ROCKS IN DAGESTAN USING AERIAL  
PHOTOGRAPHS. [1963] 9p.  
Order from ATS \$9.50

ATS-89Q69R

Trans. of Izv[estiya] Vysishikh Uchebn[ykh] Zavedenii.  
Geologiya i Razvedka (USSR) 1962, v. 5, no. 10,  
p. 53-62.

DESCRIPTORS: \*Rock (Geology), \*Carbonate minerals,  
\*Non-metals, \*Aerial photography, Mining engineering,  
Mechanical properties, Fracture (Mechanics).

(Earth Sciences--Geology, TT, v. 10, no. 5)

63-17466

- I. Title: Dagestan
- I. Chang, T.
- II. Skaryatin, V. D.
- III. ATS-89Q69R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

Accounting for Seleno-Solar Tidal Influences  
in Gravimetric Measurements, by  
Ye. A. Mudretsova, 11 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved,  
Geol i Razvodka, No 10, 1962, pp 113-119.  
TP5001569  
FTD-TT-65-739

Sci - Space Tech  
Jan 67

314,225



Kaleda, G. A.  
STATUS OF THE STRATIGRAPHY OF DEVONIAN  
DEPOSITS IN THE ALAY AND TURKESTAN  
MOUNTAINS (O Sostoyanii Stratigrafi Devonskikh  
Otlozhenii Alaiskogo i Turkestanakogo Khrebtov) tr.  
by Dimitri Shalikashvili. Apr 63 [31 p. 21 refs.  
ACIC TC-601.  
Order from OTS or SLA \$3.60 63-19538

Trans. of [Izvestiya Vsesoyuznogo Nauchno-Issledovatskogo  
Geologicheskogo i Razvedki (USSR) 1962 [v. 5] no. 11,  
p. 36-50.

DESCRIPTORS: \*Stratigraphy, \*Paleontology, Animals,  
Structural geology, Asia, Mountains, Geology,

A study is made of the stratigraphy of Devonian deposits  
in the area of the Alay and Turkestan mountain ranges.  
The area is separated into the following facies-  
structural zones: zones of accumulation of organic cal-  
(Earth Sciences--Geology, TT, v. 10, no. 12) (over)

63-19538

1. Title: Brachiopods
2. Title: Turkestan mountains
- I. Kaleda, G. A.
- II. ACIC TC-601
- III. Aeronautical Chart and  
Information Center,  
St. Louis, Mo.

Office of Technical Services

TT-64-12060

Khain, V. E.  
ABYSSAL FAULTS: THEIR MAIN CHARACTERISTICS,  
PRINCIPLES OF CLASSIFICATION, AND SIGNIFI-  
CANCE IN THE DEVELOPMENT OF THE EARTH'S  
CRUST (AN HISTORICAL REVIEW). [1963] 18p  
Order from ATS \$24.75      ATS-88Q71R

Trans. of Izvestiya Vsesoyuznogo Nauchno-Issledovatskogo  
Geologiya i Razvedka (USSR) 1963, v. 6, no. 3,  
p. 13-29.

DESCRIPTORS: \*Structural geology, \*Faults (Geology),  
Lithosphere, Classification, Reviews,

(Earth Sciences--Geology, TT, v. 11, no. 3)

I. Khain, V. E.  
II. ATS-88Q71R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

TT-64-22262

Shelkovich, I. G.  
AN INVESTIGATION OF THE PROCESS OF IMPACT  
ENERGY TRANSMISSION THROUGH A CORE BARREL  
WITH THE AID OF RESISTANCE STRAIN GAGES. 8p.  
Order from ATS \$9.75      ATS-24R75R

I. Shelkovich, I. G.  
II. ATS-24R45R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Trans. of Ev[estiva] Vysshikh Uchebn[ykh] Zavodov.  
Geologiya i Razvedka (USSR) 1963, v. 6, no. 10,  
p. 121-127.

(Earth Sciences--Geology, TT, v. 12, no. 4)

Office of Technical Services

Types of Karst in East China, by S. Ordzhonikidze, 28 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Geolog i Razved-  
ka, No 2, 1964, pp 39-55.  
JPRS 23934

USSR  
FE-China  
Geog

Apr 64

253, 710

An Analysis of the Operation of Knuckle  
Joints, by V. M. Matrosow and  
B. I. Spiridonov,  
RUSSIAN, per, Izv. VUZ Geol i Razvedka, Vol  
VII, No 2, 1964, pp 132-136.  
ATS RJ-4550

Sci-Materials  
Apr 67

321,599

Investigation of Heterogenous Magnetization of  
Rock, by G. A. Solov'yev, S. Orizhonkidze,  
6 pp.

RUSSIAN, per, Iz VUZ, Geologiya i Razvedka,  
No 3, 1964, pp 120-123.  
JPRS 24312

Sci - Ear Sci  
May 64

257, 078

Training of Geological Engineers at Moscow Geological Prospecting Institute, by V. N. Pavlinov, 8 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Geol i Razvedka,  
No 6, 1964, pp 127-132.  
JPRS 27107

USSR  
Soc  
Jan 65

270,686

A Book About the Organization and Planning of  
Geological Prospecting Work, by G. P. Sinyagin, 5 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved Geol i Razvedka,  
No 6, 1964, pp 135-137.  
JPRS 27017

Sci - ES & Astron  
Nov 64

268,834



Hydraulic Percussion Drilling as a Means of  
Reducing the Severity of Deviation in Wells,  
by L. Graf, et al,  
RUSSIAN, per, Izv. VUZ Geol. i Razvedka,  
Vol VII, No 9, 1964, pp 109-113.  
ATS RJ-4522

Sci- /  
Apr 67

321,584

The Efficiency of Blasts Near the Ground Surface  
in Seismic Prospecting, Exemplified by Volgogradskaya  
Oblast, by V. B. Levyant, 27 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Geol i Razvedka,  
No 10, 1964, pp 123-140.  
JPRS 28095

Sci - ES & A  
Feb 65

~~272,707~~ 272,707  
272,707

Increasing the Efficiency of Rotary-  
Percussion Drilling Devices, by I. G.  
Shelkovnikov.  
RUSSIAN, per, Izvestiya VUZ Geologiya i  
Razvedka, Vol 7, No 11, 1964, pp 114-123.  
ATS-82S88R

Sci-Mech Indus Civ Mar Engr  
Nov 66 313,568

The Genus *Allorismella* Gen. Nov. in the  
Lower Carboniferous of the Moscow Basin,  
by K. A. Astar'eva-urbaitis.  
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh  
Zavedenii Geologiya i Razvedka, 1962, No 12,  
pp 35-43.  
NLI RTS 2687 (On Loan or Purchase)

Aug 65

288,839

Modeling Problems in Underground Electrical  
Geophysical Prospecting by the Resistance  
Method, by Ya. Sabo, I. Barami, 10 pp.  
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh  
Zavedeniy, Geologiya i Razvedka, No 12,  
Dec 1964, pp 103-109.  
JPRS 28743

Sci-Earth Sciences & Astronomy  
Mar 65

275,835

Experience in Conducting Electrical Geophysical Prospecting in Searching for Ground Water Under Complex Geological Conditions, by L. A. Dobrovolskiy, 9 pp.  
RUSSIAN, par, Izvestiya Vysshikh Uchebnykh Zavedeniy, Geologiya i Razvedka, No 12, Dec 1964, pp 110-115.  
JPRS 28742

Sci-Earth Sciences & Astronomy  
Mar 65

275,836

R-900

(DC-2534).

Reducing the Number of Chemical Analyses  
During Assaying at ~~EMI~~ gold Deposits, by  
G. I. Vilesov, 12 pp. =

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy,  
Gornyy Zhur, No 3, 1958, pp 43-52.  
*Sverdlovsk,*

US JPRS-L-1705-D

Sci - Min/met  
Jun 59

89,186

(NY-3001/5).

Improvement of the Technological Systems of  
Concentrating Nonferrous Metals in Connection With  
a Study of Their Material Composition, by V. M.  
Arashkevich, 9 pp.

RUSSIAN, per, Iz Vys Ucheb Zaved, Gornyy Zhur, No 6,  
1958, pp 130-135.

JPRS-2267

109,363

USSR  
Econ - Technological  
Mar 60



Ryashentsev, N. P.  
DIE DYNAMIK DES MAGNETISCH ARBEITENDEN  
ABBALHAMMERS MS-3 (Dynamics of Solenoid  
Bulking Hammers of the Type MS-3). 4p. (text in  
German).  
Order from T.I.B. \$1.40

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy,  
Gornyi Zhurnal (USSR) 1959, no. 1, p. 195-198.

DESCRIPTORS: Mining engineering, \*Hammers,  
Solenoids.

62-27025

- I. Ryashentsev, N. P.
- II. T.I.B.
- III. Technische Informations-  
bibliothek Hannover

Office of Technical Services

Alabuzhev, P. M., Ryashentsev, N. P., and  
Timoshenko, E. M.  
UNTERSUCHUNG SCHLAGEND MIT ELEKTROMAG-  
NETEN ARBEITENDER HAMMER (Tests on Solenoid  
Hammers). 8p. (text in German).  
Order from T.I.B. \$1.55

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Gornyi Zhurnal (USSR) 1959, no. 2, p. 89-97.

DESCRIPTORS: Mining engineering, Solenoids,  
\*Hammers.

62-27002

I. Alabuzhev, P. M.  
II. Ryashentsev, N. P.  
III. Timoshenko, E. M.  
IV. T.I.B.  
V. Technische Informations-  
bibliothek Hannover

Office of Technical Services

{ IVI -- 1727 }.

On the Direction of Degassing Bore Holes in  
Steeply Pitching Beds, by Ye. A. Litvinenko,  
6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Gornyy  
Zhur, No 10, 1959, pp 56-58.

JPRS 5797

Sci - Engr  
18 Oct 60

128,689

(NY-4792)

Distribution of Particles by Sizes in Dust  
Aerosols, by A. S. Burchakov, 7 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved,  
Gornyy Zhur, No 10, 1979, pp 59-62.

JPRS 5804

Sci - Phys

Oct 60

128,995

Determining the Tensor of Pressure Buildup During  
Blast by Experimental Seismic Investigation Data,  
by M. A. Mikulinskiy, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Gornyi Zhur,  
No 11, 1960, pp 69-72. 9207689

\*AEC - UCRAL-Tr-936(2)

Sci - Earth Sci

19 Mar 63

Approximate Calculation of Pressure Wave Energy  
Dependence to Shattering, Displacement, and  
Deformation of Solid Rocks, by A. E. Kharukayev,  
8 pp.

RUSSIAN, Tr. Inst. VUZ, Gorny Zhur, No 2, 1960,  
pp 90-94. 9210727

AEC-UCTA-Tr-931(1.)

Sci - Bar Sci & Astron

Aug 63

341,353

Determining the Tensor of Pressure Buildup During  
Elast by Experimental Seismic Investigation Data,  
by M. A. Mikulinskiy, P. S. Mironov, 7 pp.

RUSSIAN, per, Izvest Vyssh Ucheb Zaveden (1960)  
Gornyi Zhur, No 11, 1960, pp 65-72, 9207689.

AEC-UCRL-Tr-936(L)

Sci - Earth Sci

Jun 63

231, 921

Experimental Investigations of the Basic Parameters  
of Hydraulic Emulage of Coal and Rock Mixtures in  
Flumes, by A. I. Kuprin, 7 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zavod, Gornyi Zhur, No 1,  
1961, pp 5-12. 9215307

OTS 63-11092  
PL-480

Sci - M/M  
Dec 63

243,954



Experimental Investigations on the Parameter of Joint  
Hydraulic Transport of Coal and Rock in Flumes  
(Eksperimental'nye Issledovaniia Osnevnykh Parametrov  
Sovmestnogo Gidravlicheskogo Transporta Uglia i  
Porody po Zhelobam), by A. I. Kuprin, T. Da-Dzhun.

RUSSIAN, per, Iz Vyssh Ucheb Zaved. Gornyi Zhur,  
No 1, 1961, pp 23-24.

\*PL-480

Sci -

Aug 63

Leonov, P. A.  
SICHERE VERFAHREN ZUM LÖSCHEN BRENNENDER  
BERGHALDEN (Effective Procedure for Quenching  
Burning Spoil Banks).  
Order from TIB \$1.10

Trans. from Izvestiya Vysshikh Uchebnykh Zavedenii.  
Gornyi Zhurnal (USSR) 1961, no. 2.

DESCRIPTORS: \*Fire extinguishers, \*Mining  
engineering

(Engineering--Safety, TT, v. 9, no. 11)

62-27277

I. Leonov, P. A.  
II. Technische Informations-  
bibliothek, Hannover  
(West Germany)

Office of Technical Services

Rostovtsev, V. N.  
UNTERSUCHUNG DER GESTEINSSTRUKTUR IM  
GEBIRGSKÖRPER (Investigation of the Rock Structure  
in the Mountain Massif).  
Order from TIB \$1.80

Trans. in German of Izvestiya Vysshikh Uchebnykh  
Zavedenii. Gornyi Zhurnal (USSR) 1961, no. 3, p. 53-58

DESCRIPTORS: \*Rock, \*Structure, Mountains

(Earth Sciences--Geology, TT, v. 9, no. 11)

62-27241

I. Rostovtsev, V. N.  
II. Technische Informations-  
bibliothek, Hannover  
(West Germany)

Office of Technical Services

(NY-3000)

Economic Effectiveness of the Basic Production  
Funds of Mining Enterprises, by D. G. Stadukhin,

RUSSIAN, per, X Iz Vysshikh Ucheb Zaved, Gornyy  
Journal, No 3, 1961, pp 65-72.

*Zhukov*  
\*JPRS

USSR  
Econ  
19 Dec 61

62-27242

Ivashkin, V. F.  
AUTOMATISCHE EINRICHTUNGEN ZUM VER-  
SPRUEHEN VON WASSER (Automatic Devices for Water  
Spraying).  
Order from TIB \$1.30

Trans. in German of Izvestiya Vysshikh Uchebnykh  
Zavedenii. Gornyi Zhurnal (USSR) 1961, no. 6,  
p. 141-143.

DESCRIPTORS: \*Automation, \*Water, \*Sprays

(Engineering, TT, v. 9, no. 11)

I. Ivashkin, V. F.  
II. Technische Informations-  
bibliothek, Hannover  
(West Germany)

Office of Technical Services

(NY-3000)

Determination of the Wastage and Depletion  
of Ore in the Kommunar-Pobeda Shaft of the  
Mine named F. E. Dzerzhinskiy, by V. V.  
Kulikov, 10 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved,  
Gorniy Zhur, No 9, 1961, pp 70-76.

JPRS 11970

USSR  
Econ  
Jan 62

181, 191

The Effect of the Water Contained in Strata and  
Coal Seams on the Gassiness of the Latter, by  
I. M. Pechuk.

RUSSIAN. per, Iz Vysshikh Ucheb Zaved, Gornyy Zhur,  
Vol V, No 3, 1962, pp 36, 37.

NLL M. 3853

Sci - Phys

Nov 62

217,533

The Gor'ki reservoir, by G. P. Kozhevnikov,  
RUSSIAN, per, Izvestiya Gosudarstvennogo Nauchno-  
issledovatel' Skogo Instituta Ozerogo i  
Rechnogo Khozyaistva, Vol 50, 1961, pp 51-61  
NLL RFB 3021  
(ON LOAN OR PURCHASE)

Sci - Biol  
May 67

325,870



Calculation of Tandem Pulley Drive Systems  
of Belt Conveyors, by U.I. Mikhail'lov.  
RUSSIAN, per Izv. vyssh. uchebn. Zaved.,  
Gornyi. Zh. No. 8, 1963, pp 54-60  
SACSIR 492

Sci -  
Aug 67

337-591

Davankov, A. B., Laufer, V. M. and others.  
AN EXPERIMENT FOR EXTRACTING URANIUM  
AND OTHER ELEMENTS FROM WATERS OF THE  
ATLANTIC OCEAN. June 62, 13 refs.  
Order from PS \$8.30 PS CR-4026

Trans. of Izv[estiya] V[ysshikh] U[chebnykh]  
Z[avedeni]. Isvetnaya Metallurgiya (USSR) 1962  
[v. 5] no. 2, p. 118-123.

DESCRIPTORS: \*Uranium, Chemical elements,  
\*Water filters, Sea water, Atlantic Ocean, Solvent  
extraction.

62-17970

I. Davankov, A. B.  
II. Laufer, V. M.  
III. PS CR-4026  
IV. Primary Sources, New York

(Engineering--Chemical, TT, v. 8, no. 4)

Office of Technical Services

12 VUZ Khim i Khim Tekh

*K. B. Yatsimirskiy*

*Study of the absorption spectra and determination of the dissociation constants of molybdic acid.*

*RUSSIAN, Izvestiya VUZ. Khimiya i khimicheskaya*  
*technologiya, No 1, 1958, pp 53-58*  
*C.E. trans 5897*

*sept 72*

An Improved Method of Synthesis of  
Triethylaluminum, by S. E. Kryukov, et al.  
USSR

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy --  
Khim i Khim Tekh, No 1, 1958, pp 85-93.

SLA 54-2532  
DSIR ILLU RTS 1268

(11 Oct. 63.)

RTS-RT-2140

Set - Chem  
Nov 59

100,768

The Kinetics of Menshutkin ~~SN1~~ Reactions in Non-Aqueous Solvents, by N. K. Vorob'yev, G. F. Titova.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i Khimichesk Tekh, No 2, 1958, pp 17-24.

NIL RTS 2020

OTS 62-1291

Sci - Chem  
Jun 62

201, 012

Mazurin, O. V. and Levin, A. S.  
THE PROBLEM OF THE CHOICE OF A RATIONAL  
METHOD OF THE MEASUREMENT OF THE ELEC-  
TRIC CONDUCTIVITY OF GLASSES (K Voprosu o  
Vybere Ratsional'noi Metodiki Izmereniya Elektro-  
provodnosti Stekol). [1963] [15p] (foreign text included)  
4refs

Order from OTS, SLA, or BTC \$1.60 TT-64-10581

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1958,  
no. 2, p. 142-146. (Abstract available)

DESCRIPTORS: \*Measuring devices (Electrical and  
Electronic), \*Electrical conductance, \*Glass,  
Resistance (Electrical), Electrodes, Graphite, Test  
methods.

The resistivity of glasses was measured with graphite  
electrodes (at high resistances D. C. was used, and at  
(Materials--Ceramics, TT, v. 11, no. 10) (over)

TT-64-10581

I. Mazurin, O. V.  
II. Levin, A. S.

Office of Technical Services

THE THERMAL STABILITY OF STRONGLY HYDROLYZABLE SULFONATED CATIONITES. II. On the Influence of Thermal Treatment on Some Physico-Chemical Properties of the Hydrogen Form of Cationites KU-1 and KU-2, by N. G. Polyanskiy. UNCL

RUSSIAN, per, Iz Vysishikh Ucheb. Zaved, Khim i Khim. Tekh, No 2, 1958, pp 152-159.

DSIR LLU M.858  
OTS 60-13 664

Sci - Chem

(loan)

111,145

Mar 60



Investigation of the Thermomechanical  
Properties of Stereo-Regular Polypropylene,  
by Z. A. Rogovin, B. M. Kovarskaya. UNCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i  
Mhin Tekh, No 2, 1958, pp 301-364.

DSIR LLU M.827

(loan)

111/132

Sol - Chem

Mar 60

62-16679

I. Mazurin, O. V.

Mazurin, O. V.  
SIMILARITY OF THE DEPENDENCE OF ELECTRO-  
CONDUCTIVITY AND VISCOSITY OF GLASSES (O  
Skhodatve Temperaturnykh Zavistimostei Elektro-  
provodnosti i Vyazkosti Stekol). [1962] [14]p. (foreign  
text included) 19 refs.

Order from OTS or SLA \$1.60

62-16679

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii].  
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)  
1958, no. 3, p. 136-141.

DESCRIPTORS: \*Glass, Electrical conductance, Vis-  
cosity, Statistical functions.

All the experimental material found in the world litera-  
ture indicates that the following relationship is typical  
for glasses:  $x^n \cdot \eta = C$  where  $n$  and  $C$  are con-  
stants. Study of this relationship makes it possible for  
us to draw certain conclusions on energy correlations in  
(Materials--Ceramics, TT. v. 9, no. 2) (over)

Office of Technical Services

On ~~the~~ Multinuclear Chlorides of Niobium and  
Tantalum, by E. I. Krylov, 6 pp.

RUSSIAN, per, Is Vysshikh Ucheb, Zaved Khim i  
Khim Tekh, No 4, 1958, pp 676-679.

ABC MP Tr-543

Sci - Chem  
May 61

150,367

Sodium Phenylacetate as an ~~INH~~ Inhibitor of  
Corrosion of Metals in Neutral Media, by  
E. V. Bogatyreva, S. A. Balezin, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i  
Khim Tekhnol, Vol II, No 1, 1959, pp 25-29.

ATS-RJ-2731  
ATS-48437R

Sci

170,090

Oct 61

61-15220

Spryskov, A. A. and Potapova, T. I.  
STUDIES IN SULPHONATION. I. DETERMINATION  
OF THE ISOMERS OF TOLUENEDISULPHONIC  
ACIDS (Izucheniye Reaktsii Sul'irovaniya. I. Opre-  
deleniye Izmernykh Disul'fokislot Toluola). Nov 60  
[7]p. 6 refs. RTS 1578.  
Order from LC or SLA m\$1.80. ph\$1.60 61-15220

Trans. of Izvestiya Vysshikh Uchebnykh  
Zavedeniy. Khimiya i Khimicheskaya Tekhnologiya  
(USSR) 1959 [v. 2] no. 1, p. 41-45.

Semi-quantitative solubility data are given for the  
salts of 18 amines with 2, 4-, 2, 5- 2, 6- and 3, 5-  
toluenedisulphonic acids. The melting point diagram  
of the binary system 2, 4- and 3, 5-toluenedisulphonic  
chlorides is given. A quantitative method for the de-  
termination of 2, 4-, 2, 5-, 2, 6- and 3, 5-toluene-  
disulphonic acids mixed with one another and with  
sulphuric acid has been developed. The maximum  
error in the content of any isomer is about 1-1.5%  
of the total disulphonic acids. (Author)

1. Toluene--Chemical reactions
2. Sulfonic acids--Determination
3. Title: Sulphonation
- I. Spryskov, A. A.
- II. Potapova, T. I.
- III. Title: Determination...
- IV. RTS-1578
- V. Department of Scientific  
and Industrial Research  
(Gt. Brit.)

148,733

DSII. LIII. RTS 1578

Office of Technical Services  
(Chemistry--Analytical,  
TT, v. 5, no. 7)

Terent'ev, A. P., Fedoseev, P. N., and Ivashova,  
N. P.  
THE USE OF ALKALINE EARTH METALS IN  
ORGANIC ELEMENTAL ANALYSIS. 21 Jun 63 [9p] 17 refs  
Order from OTS or SLA \$1.10 63-18917

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii,  
Khimiya i Khimicheskaya Tekhnologiya (USSR)  
1959, v. 2, no. 1, p. 54-58.

DESCRIPTORS: Chemical analysis, Organic compounds,  
\*Nitrogen, \*Sulfur, \*Halogens, \*Carbon, \*Calcium,  
\*Magnesium, \*Alkaline earth metals, Quantitative  
analysis.

The purpose of the paper is to describe methods for the  
qualitative determination of nitrogen, sulfur, and  
halogens in organic compounds by heating with metallic  
magnesium or calcium, and for the determination of  
(Chemistry--Analytical, TT, v. 10, no. 10) (over)

63-18917

I. Terent'ev, A. P.  
II. Fedoseev, P. N.  
III. Ivashova, N. P.

Office of Technical Services

Uchnovskii, G. L. and Chernobai, A. V.  
POLYMERIZATION OF CYCLOPENTADIENE. [1961]  
Sp 10 refs.  
Order from OTS or SLA \$1.10

61-20640

Trans. of Izvestiya Vysseikh Uchebnykh Zavedenii.  
Khimiya: Khimicheskaya Tekhnologiya (USSR) 1959,  
v. 1, no. 1, p. 90-107.

DESCRIPTORS: \*Cyclopentadiene, Pentadienes, \*Poly-  
merization, Boron compounds, Fluorides, Catalysts,  
Catalysts, Polymers.

It is established that the most effective catalysts for  
the polymerization of cyclopentadiene are the complexes  
of boron trifluoride with organic substances (alcohols,  
simple and complex ethers). The effect of various  
factors (the concentration of the catalyst and monomer,  
nature of the solvents) on the polymerization process  
(Chemistry--Organic, TT, v. 7, no. 3) (over)

61-20640

I. Uchnovskii, G. L.  
II. Chernobai, A. V.

Office of Technical Services

63-27537

Ermilov, P. I.  
DIE ANWENDUNG NICHT IONOGENER NETZMITTEL  
ZUR ENTSTAUBUNG VON GASEN (The Application of  
Non-Ionogenic Wetting Agents for Dust Exhaust of  
Gases). 17p.  
Order from TIB \$2.70

Trans. in German of Izvestiya Vysshikh Uchebnykh  
Zavedenii. Khimiya i Khimicheskaya Tekhnologiya  
(USSR) 1959, v. 2, no. 1, p. 134-140.

DESCRIPTORS: Ions, \*Wetting agents, Particles,  
\*Gases, Cleaning.

(Engineering--Chemical, TT, v. 10, no. 2)

I. Ermilov, P. I.  
II. Technische Informations-  
bibliothek, Hannover  
(West Germany)

Office of Technical Services



Affinity of Bentonite Treated With Amines for  
Water, by R. A. Nikhalyuk, O. D. Kusilenko.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim i  
Khim Tekh, No 2, 1959, pp 196-199.

NCB A.1877

S.836

NLL M. 3089

Sci

Aug 61

List No 41

163,557

The Part Played by Manganese in the Electrolytic  
Deposition of Zinc, by R. S. Vakhidov, G. Z.  
Kir'yakov.

RUSSIAN, per, Iz Vysshikh Ucheb. Zaved., Khim. i  
Khim. Tekh., No 2, 1959, pp 238-243.

DSIR LLU RTS 1626

OTS 61-15866

169, 840

Sci - Chem

Oct 61

Kharitonova, V. P., Babenkov, L. N., Pakshver, A. B.  
THE EFFECT OF THE AMOUNT OF COMBINED ACETIC ACID IN CELLULOSE ACETATE ON THE FILTERABILITY AND SPINNABILITY OF COMMERCIAL DOPES [Vliyeniye Soderzhaniya Syvazannoi Uksusnoi Kisloty v Atsetiltseilyuloze na Fil'truemost' i Pryadomost' Proizvodstvennykh Rastvorov]. [1962] 5p. Order from ATS \$7.75      ATS-83P60R

Trans. of Inst. of [iya] Vysshikh Uchebnykh Zavedeni. Khim[iya] i Khim[icheskaya] Tekhnologiya (USSR) 1959, v. 2, no. 2, p. 254-257.

DESCRIPTORS: \*Acetic acids, \*Cellulose acetates, Solutions, \*Fibers, Acetates, Textiles, Processing.

(Materials--Textiles, TT, v. 8, no. 4)

62-17759

- I. Kharitonova, V. P.
- II. Babenkov, L. N.
- III. Pakshver, A. B.
- IV. ATS-83P60R
- V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

The Solubility of Inorganic Salts in Organic Solvents and in Their Mixtures with Water, by I. S. Pakhtashev, S. A. Voznesenskiy, 10 pp.

RUSSIAN, per, Izv Vysshikh Ucheb Zaved Khim i Khim Tekhnol, No 2, 1959, pp 827-833.

ABC-Tr-5574

Sci - Chem

Jun 63

232,404

Photocolorimetric Determination of Antimony in  
Zinc Electrolytes and Alloys, by N. N. Kovalenko,  
N. P. Moricheva.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved Khim i Khim  
Tekh, Vol II, No 3, 1959, pp 322-327.

NLL RTS 2123

Sci - ~~EX~~ Phys  
Mar 63

226,646

Thermodynamic Properties of Mercury Compounds, by  
P. G. Maslov,

RUSSIAN, for, Le Vysshikh Ucheb Zavedeni Khim i  
Khim Teknol, No 3, 1959, pp 335-339.

AEC Tr-4013

Sci - Chem

May 60

117,369

62-18900

Borisov, A. F. and Dertev, N. K.  
ELECTROCHEMICAL METHOD OF INVESTIGATING  
THE BOILING PROCESS OF GLASS (Elektrokhimi-  
cheskii Metod issledovaniya Protsessa Varki Stekla).  
[1962] [9]p. (foreign text included) 8 refs.  
Order from OTS or SLA \$1.10

62-18900

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1959,  
v. 2, no. 3, p. 420-423.

DESCRIPTORS: \*Glass, Melting, Electrochemistry,  
Additives, Viscosity.

(Materials--Ceramics, TT, v. 9, no. 7)

I. Borisov, A. F.  
II. Dertev, N. K.

Office of Technical Services

Zanemonets, N. A. and Fogel', V. O.  
A NEW METHOD OF DETERMINATION OF THE  
HEAT EFFECTS OF THE VULCANIZATION RE-  
ACTION OF RUBBERS, tr. by G. F. Hill. 20 Jan 62  
[12]p. 8 refs. AOMC Trans. nr 5-62.  
Order from OTS or SLA \$1.60

62-15513

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1959  
[v. 2] no. 3, p. 437-442.

DESCRIPTORS: \*Thermodynamics, \*Vulcanization,  
\*Rubber, Heat, Kinetic theory, Combustion, Thermal  
conductivity, Calorimetry.

A new method is proposed for the determination of the  
heat effects of the vulcanization reaction by means of  
composing heat balances on the basis of thermo-  
graphic analyses (method of thermographic balances).  
The new method was verified in the investigation of  
(Materials--Rubber, TT, v. 8, no. 10) (over)

62-15513

- I. Zanemonets, N. A.
- II. Fogel', V. O.
- III. AOMC Trans-5-62
- IV. Army Ordnance Missile Com-  
mand, Redstone Arsenal, Ala.

Office of Technical Services



Thermal Decomposition of Coal Tar Pitchess,  
by A. E. Chistyakov. UNCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i  
Mashin Stroi, No 3, 1959, pp 449-453.

DSIR LLU M.1326

(loan)

Sci. - Fuels

Apr 60

112,695

Selivanova, N. M. and Shneider, V. A.  
THE PHYSIOCHEMICAL PROPERTIES OF SELE-  
NATES. V. THE HEAT OF FORMATION OF CAL-  
CIUM SELENATE FROM THE ELEMENTS. [1961]  
[7]p. 20 refs.  
Order from OTS or SLA \$1.10 61-27877

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1959,  
v. 2, no. 4, p. 475-479.

DESCRIPTORS: \*Heat of formation, \*Heat of reaction,  
\*Heat of solution, Silver compounds, Nitrates, Cal-  
cium compounds, \*Selenates, Water, Thermochemistry.

The heat of the reaction between calcium selenate and a  
silver nitrate solution was determined and the integral  
heat of solution of calcium selenate dihydrate in water  
(1:1600) was measured under standard conditions. The  
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-27877

- I. Selivanova, N. M.
- II. Shneider, V. A.
- III. Title: Heat ...
- IV. Translations, New York

61-27877

Office of Technical Services

Thermal and Tensimetric Study of the System  
 $\text{NbCl}_5\text{-FeCl}_3\text{-NaCl}$ , by I. S. Morozov, B. G. Korshunov,  
6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i Khim  
Tekh, Vol II, No 4, 1959, pp 485-489.

ATS-27442R

ATS/RJ-2553

190, 250

Sci

Apr 62

Vol IV, No 6

Maslov, P. G. and Maslov, Yu. P.  
THE THERMODYNAMIC PROPERTIES OF COM-  
POUNDS CONTAINING LANTHANITES. [1961][7]p.  
11 refs.

Order from OTS or SLA \$1.10

61-27885

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii].  
Khim[ya] i Khim[icheskaya] Tekhnologiya (USSR)  
[1959] v. 2, no. 4, p. 516-521.

DESCRIPTORS: \*Thermodynamics, Crystals, Crystal  
structure, Solutions, Entropy, Heat of formation,  
\*Lanthanites, Halides, Rare earth compounds,  
Ammino compounds.

Thermodynamic properties were calculated for 95  
mixed halide lanthanites in the crystalline state and for  
the standard solution. A general relationship was found  
for determining the thermodynamic characteristics for  
a series of families of crystalline lanthanites of the  
(Physics--Thermodynamics, TT, v. 6, no. 11) (over)

61-27885

I. Maslov, P. G.  
II. Maslov, Yu. P.  
III. Translations, New York

188735

Office of Technical Services

Investigation of the Interaction of Minerals  
Containing Alkali Elements With Salts and  
Oxides in Sintering and Melting Processes. II.  
Thermographical Investigation of the Interaction  
Process of Pollucite With Calcium Oxide and  
Calcium Chloride, by V. Ye. Plyushchev, I. V.  
Shakhno.

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Khim i Khim  
Tekhnol, Vol II, No 4, 1959, pp 582-588.

SLA 60-17596

Dept of Interior  
TN7, E57, No 329

SCI - Chemistry  
Oct 60

128,662

Sullivanova, N. M. and Schneider, V. A.  
THE PHYSIOCOCHEMICAL PROPERTIES OF  
SELENATES. VI. THE SOLUBILITY OF CALCIUM  
SELENATE IN WATER AT DIFFERENT TEMPERA-  
TURES. [1961] [8]p. 23 refs.  
Order from OTS or SLA \$1.10

61-27884

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.  
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1959  
[v. 2] no. 5, p. 651-656.

DESCRIPTORS: Solubility, Water, \*Heat of solution,  
Entropy, Thermodynamics, Thermochemistry,  
Calcium compounds, \*Selenates.

The polytherm of the solubility of  $\text{CaSeO}_4 \cdot 2\text{H}_2\text{O}$  in  
water was investigated from the cryohydrate point to  
the boiling point of the saturated solution. The experi-  
mental data obtained were used for calculating the dif-  
ferential and integral heats of solution of this salt. The  
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-27884

- I. Sullivanova, N. M.
- II. Schneider, V. A.
- III. Title: Solubility...
- IV. Translations, New York

Office of Technical Services

CATALYTIC EFFECTS OF QUATERNARY AMMONIUM  
SALTS ON THE RATES OF MENSHTKIN TYPE REACTIONS  
IN ORGANIC SOLVENTS, BY N. K. VOROB'YEV,  
G. F. TITOVA.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED:  
KHIM I KHIMICH TEKH, VOL 11, 1959, PP 685-692.

NLL RTS 2021

SCI - CHEM

JUN 62

199,896

63-20253

Tyuraev, I. Ya.  
DEVELOPMENT OF THE BASES FOR A PROCESS OF  
INDUSTRIAL DEHYDROGENATION OF PARAFFIN  
HYDROCARBONS. [1963] [9p] 10refs  
Order from OTS or SLA \$1.10      63-20253

I. Tyuraev, I. Ya.

Trans. of [izvestiya] Vysshikh Ucheb[nykh] Zavedenii.  
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)  
1959, v. 2 [no. 5] p. 797-802.

DESCRIPTORS: \*Towers (Chemistry), Design, Hydro-  
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